

THIN-FILM MAGNETIC HEAD ASSEMBLY BODY AND ITS MANUFACTURING METHOD

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Inventor(s): KOSHIKAWA YOSHIO; others: 03
Applicant(s): FUJITSU LTD
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Abstract

PURPOSE: To prevent a head crash by performing improvement so that a surface which is exposed on an opposing surface of a medium of an inorganic insulation protection film covering a thin-film magnetic head element does not protrude even if an interlayer insulation layer consisting of a resin material, etc., of the thin-film magnetic head element generates a great thermal expansion at the time of recording for the thin-film magnetic head assembly body used for a magnetic disk device, etc., and its manufacturing method.

CONSTITUTION: A recessed portion 21 is provided previously on an opposing surface 19 of a medium of an inorganic insulation protection film 18. The recessed portion 21 is formed by heating a thin-film magnetic head element 20 to a temperature which is increased at least at the time of recording and allowing a surface which is exposed to a side of the opposing surface 19 of the medium of the inorganic insulation protection film 18 caused by a large thermal expansion of an interlayer insulation layer 15, and then performing abrasion machining of the opposing surface 19 of the medium to a flat surface.

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